

CONTENTS OF VOLUME 34 (1995)—ACTA ONCOLOGICA

No. 1

<p>Editorial—The nature of cancer RINGBORG U.....</p> <p>The nature of cancer—Morphogenesis and progressive (self)-disorganization in neoplastic development and progression CLARK W. H.....</p> <p>p53 protein expression in leukemias PAYDAS S.....</p> <p>Detection of structural aberrations of chromosome 17 in malignant gliomas by fluorescence in situ hybridization (FISH) KWAK T., NISHIZAKI T., NAKAYAMA H., KAKINO S., ITO H., KIMURA Y.....</p> <p>Core needle aspiration biopsy of palpable breast masses VEGA A., GARIJO F., ORTEGA E.....</p> <p>The expression of glutathione transferase isoenzymes in human malignant lymphoma biopsies BERHANE K., HAO X.-Y., CHRISTENSSON B., HANSSON J., RINGBORG U., MANNERVIK B.....</p> <p>Metastases in cases with hepatocellular carcinoma in relation to clinicopathologic features of the tumour—An autopsy study from a low endemic area KACZYNSKI J., HANSSON G., WALLERSTEDT S.....</p> <p>Heat-stable alkaline phosphatase—A putative tumor marker of head and neck squamous cell carcinoma RASSAM M. B., AL-BASHIR N. M., AL-SALIHI A. R., HAMMASH M. H., AL-SAMMERAI F., AL-UBAIDI M. A., WAHEED I. N.....</p> <p>Biochemical parameters as prognostic factors in prostatic adenocarcinoma VESALAINEN S., LIPPONEN P., TALJA M., SYRJÄNEN K.....</p> <p>Urinary excretion of pseudouridine and prognosis of patients with malignant lymphoma RASMUSON T., BJÖRK G. R.....</p> <p>Significance of increased neutrophils in patients with advanced colorectal cancer SATOMI A., MURAKAMI S., ISHIDA K., MATUKI M., HASHIMOTO T., SONADA M.....</p> <p>Malignant lymphoproliferative diseases in HIV-seropositive patients—A study of 40 cases at a single institution in Spain RIBAS A., BELLMUNT J., OCANA I., CAPDEVILA J. A., ALBANEJ J., GALLEGOS O. S., GIRALT J., RUBIO D., SOLÉ L. A.....</p> <p>Changes of blood viscosity in patients treated with 5-fluorouracil—A link to cardiotoxicity? CWIKIEL M., PERSSON S. U., LARSSON H., ALBERTSSON M., ESKILSSON J.....</p> <p>Full-dose CHOP chemotherapy in elderly patients with non-Hodgkin's lymphoma EPELBAUM R., HAIM N., LEVIV M., BEN-SHABAR M., BEN-ARIE Y., DROR Y., FARAGGI D.....</p>	<p>1</p> <p>3</p> <p>21</p> <p>27</p> <p>31</p> <p>35</p> <p>43</p> <p>49</p> <p>53</p> <p>61</p> <p>69</p> <p>75</p> <p>83</p> <p>87</p>	<p>Simultaneous cisplatin and radiation in endometrial adenocarcinoma cell lines RANTANEN V., GRÉNMAN S., KULMALA J., GRÉNMAN R.....</p> <p>Salvage radiotherapy following chemotherapy failure in Hodgkin's disease—What is its role? O'BRIEN P. C., PARNS F. X.....</p> <p>Dosimetry of irradiation models—The 96-well clonogenic assay for testing radiosensitivity of cell lines KULMALA J., RANTANEN V., PEKKOLA-HEINO K., TUOMINEN J., GRÉNMAN R.....</p> <p>DNA damage in human endothelial cells after irradiation in anoxia ROSANDER K., ZACKRISSON B.....</p> <p>Pleurodesis with doxycycline or corynebacterium parvum in malignant pleural effusion SALOMAA E.-R., PULKKI K., HELENUS H.....</p> <p><i>Correspondence and Short Communications</i></p> <p>Combined chemotherapy, radiotherapy and surgery in inflammatory breast carcinoma VERGÉS R., FELIP E., ALASTUEY I., CAPDEVILA F., MALDONADO Z., BODI R., GIRALT J., SALVADOR L. L. A.....</p> <p>Ovarian cancer—Not every abdominal mass is a recurrence HUYSEN J. V., VEREECKE C. G., TROCH M. E.....</p> <p><i>Letter to the Editor</i></p> <p>Is coronary artery disease associated with radiotherapy preventable by salicylates? MICHALOWSKI A. S.....</p> <p>Abstracts of Theses from the Scandinavian Countries</p> <p>Meeting Calendar.....</p> <p>Book Reviews.....</p>	<p>93</p> <p>99</p> <p>105</p> <p>111</p> <p>117</p> <p>123</p> <p>124</p> <p>126</p> <p>135</p> <p>143</p> <p>145</p> <p>153</p> <p>165</p> <p>171</p>
---	---	--	---

No. 2

<p>Determination of cause of death among breast cancer cases in the Swedish randomized mammography screening trials—A comparison between official statistics and validation by an endpoint committee NYSTRÖM L., LARSSON L.-G., RUTQVIST L. E., LINDGREN A., LINDQVIST M., RYDÉN S., ANDERSSON I., BJURSTAM N., FÄGERBERG G., FRISSELL J., TABÅR L.....</p> <p>Validity of breast cancer registration from one hospital into the Swedish National Cancer Registry 1971–1991 GARNE J. P., ASPEGREN K., MÖLLER T.....</p> <p>Risk of second cancers among lung cancer patients SALMINEN E., PUUKALA E., TEPOO L., PYRHÖNEN S.....</p> <p>The relationship between proliferating cell nuclear antigen (PCNA), nuclear DNA content and mutant p53 during genesis of cervical carcinoma STEINBECK R. G., HESELMEYER K. M., MOBERGER B., AUER G. U.....</p>	<p>153</p> <p>165</p> <p>171</p>
---	----------------------------------

Serum cytokines in gestational trophoblastic diseases SHAARAWY M., DARWISH N. A.....	177
Primary radiation therapy in the treatment of localized prostatic cancer JOENSU T., BLOMQVIST, C., KAJANTI M.	183
Regeneration of parotid acinar cells after high radiation doses—A morphological study in rat GUSTAFSSON H., FRANZÉN L., HENRIKSSON R.	193
Histological changes after fractionated whole or partial irradiation of the rabbit urinary bladder KOHLER M., MICHEL C., ZIMMERMANN A....	199
Radiation effects on S-phase duration, labelling index, potential doubling time and DNA distribution in head and neck cancer xenografts ZÄTTERSTRÖM U. K., ENGELEAU J., JOHANSSON M., WENNERBERG J., KJELLÉN E.....	205
Azidothymidine (AZT) as a potential modifier of radiation response in vitro COPACEANU M.-L., COUCKE P. A., COTTIN E., PASCHOUDE N., MIRIMANOFF R.-O.....	213
Effects of sucralfate on mucositis during and following radiotherapy of malignancies in the head and neck region—A double-blind placebo-controlled study FRANZÉN L., HENRIKSSON R., LITTRBRAND B., ZACKRISSON B.	219
Influence of boost technique (external beam radiotherapy or brachytherapy) on the outcome of patients with carcinoma of the base of the tongue REGUEIRO C. A., MILLÁN I., DE LA TORRE A., VALCÁRCEL F. J., MAGALLÓN R., FERNÁNDEZ E., ARAGÓN G.	225
Comparative study on reversal efficacy of SDZ PSC 833, cyclosporin A and verapamil on multidrug resistance in vitro and in vivo WATANABE T., TSUGE H., OH-HARA T., NAITO M., TSURUO T	235
Ondansetron and metoclopramide as antiemetic treatment during cisplatin-based chemotherapy—A prospective study with special regard to electrolyte imbalance TSavaris N. B., CHARALAMBIDIS G., GANAS N., PAGOU M., KARABELLIS A., MYLONAKIS N., BENOU N., TSIKALAKIS D., KOSMIDIS P.....	243
Mechanisms of cyclophosphamide resistance in a human myeloid leukemia cell line ANDERSSON B. S., MROUE M., BRITTEN R. A., MURRAY D.	247
Influence of 5-fluorouracil on serum lipids STATHOPOULOS G. P., STERGIOU G. S., PERREA-KOSTARELIS D., DONTAS I., KARAMANOS B. G., KARAYIANNOCOS P. E.....	253
Cisplatin and ifosfamide in patients with advanced squamous cell carcinoma of the uterine cervix—A phase II trial CERVELLINO J. C., ARAUJO C. E., SÁNCHEZ O., MILES H., NISHIHAMA A.	257
Case Reports	
Elevated alpha-fetoprotein in a 51-year-old male with relapsing seminoma, previous hepatitis B and acute hepatitis C STENBYGAARD L. E., CHRISTENSEN T. B., KAMBY C.	261
Moyamoya vasculopathy after cranial irradiation—A case report AL-AMRO A., SCHULTZ H.....	261
Kaposi's sarcoma in the course of juvenile myelodysplastic syndrome TOMBULOGLU M., KESKIN A., TÖBÜ M., ÇAĞIRGAN S., BÜYÜKKEÇEYİ F., SOYDAN S....	263
Cisplatin-induced hyponatremia and renal sodium wasting EL WESHI A., THIEBLEMONT C., COTTIN V., BARBET N., CATIMEL G.	264
Palliative radiotherapy of mucocutaneous lesions in malignant acanthosis nigricans WEISS E., SCHMIDBERGER H., JANY R., HESS C. F., BAMBERG M.	265
Short Communications	
Is CA 125 actually a tumor marker for ovarian cancer? COLLAZOS J.	268
Performance of new Scanditronix semiconductor detectors for in vivo dosimetry DING W., VERSTRAETE J., VAN DAM J.	268
Mitomycin C (MMC) and unconventional fractionation (V-CHART) in advanced head and neck cancer DOBROWSKY W., NAUDÉ J., DOBROWSKY E., MILLESI W., PAVELKA R., GRASL M., KÖHLER W., KAUTZKY M., REICHEL M.	270
Abstracts of Theses from the Scandinavian Countries Meeting Calendar	281
Book Reviews	287
No. 3	
<i>Papers from the International Workshop on the Tumour Microenvironment—Its characterization, modification and clinical implications, September 23–25, 1994, Granada, Spain</i>	
Modulation of spatial O ₂ tension distribution in experimental tumors by increasing arterial O ₂ supply THEWS O., KELLEHER D. K., VAUPEL P.W.....	291
The importance of determining necrotic fraction when studying the effect of tumour volume on tissue oxygenation KHALIL A. A., HORSMAN M. R., OVERGAARD J.	297
Use of the comet assay to detect hypoxic cells in murine tumours and normal tissues exposed to bioreductive drugs OLIVE P. L.....	301

Are direct measures of tumor oxygenation reflective of changes in tumor radiosensitivity following oxygen manipulation?		
FENTON B. M., SIEMANN D. W.	307	
Analysis of the effects of oxygen supply and demand on hypoxic fraction in tumors		
SECOMB T. W., HSU R., ONG E. T., GROSS J. F., DEWHIRST M. W.	313	
Contribution of transient blood flow to tumour hypoxia in mice		
DURAND R. E., LEPEARD N. E.	317	
Reoxygenation in a C3H mouse mammary carcinoma—The importance of chronic rather than acute hypoxia		
HORSMAN M. R., GRAU C., OVERGAARD J.	325	
Relationship between tumour oxygenation, bioenergetic status and radiobiological hypoxia in an experimental model		
NORDSMARK M., GRAU C., HORSMAN M. R., JÖRGENSEN H. S., OVERGAARD J.	329	
Energy status parameters, hypoxic fraction and radiocurability across tumor types		
GERWECK L. E., KOUTCHER J., ZAIDI S. T.	335	
Spin-lattice relaxation time of inorganic phosphate in human tumor xenografts measured in vivo by ³¹ P-magnetic resonance spectroscopy—Influence of oxygen tension		
OLSEN D. R., LYNG H., PETERSEN S., ROFSTAD E. K.	339	
Distribution of hypoxia and proliferation associated markers in spontaneous canine tumors		
RALEIGH J. A., ZEMAN E. M., CALKINS D. P., MCENTEE M. C., THRALL D. E.	345	
Development of bioreductive markers for tumour hypoxia		
HODGKISS R. J., WEBSTER L., WILSON G. D.	351	
Characterisation of the vasculature within a murine adenocarcinoma growing in different sites to evaluate the potential of vascular therapies		
COWEN S. E., BIBBY M. C., DOUBLE J. A.	357	
Interstitial fluid pressure in human melanoma xenografts—Relationship to fractional tumor water content, tumor size, and tumor volume-doubling time		
TUFTO I., ROFSTAD E. K.	361	
Effect of vasoactive drugs on tumour blood flow as determined by ² H nuclear magnetic resonance spectroscopy		
BURNETT I. A., MAXWELL R. J., FIELD S. B., MCCOY C. L., GRIFFITHS J. R.	367	
The influence of nitric oxide on tumour vascular tone		
TOZER G. M., PRISE V. E., BELL K. M.	373	
Tumor oxygenation in anemic rats—Effects of erythropoietin treatment versus red blood cell transfusion		
KELLEHER D. K., MATTHIENSEN U., THEWS O., VAUPEL P.	379	
Pentoxifylline increases RIF-1 tumour pO ₂ in a manner compatible with its ability to increase relative tumour perfusion		
HONESS D. J., ANDREWS M. S., WARD R., BLEEHEN N. M.	385	
Effect of nicotinamide and pentoxifylline on normal tissue and FSA tumor oxygenation		
PRICE M. J., LI L. T., TWARD J. D., BUBLIK I., MCBRIDE W. H., LAVEY R. S.	391	
The modification of blood flow in tumours and their supplying arteries by nicotinamide		
HIRST D. G., KENNEDY G. D., TOZER G. M., PRISE V. E., FLITNEY E. W.	397	
The effect of nicotinamide on microregional blood flow within tumours assessed using laser Doppler probes		
HILL S. A., CHAPLIN D. J.	401	
The role of tumor volume in 'reoxygenation' upon cyclophosphamide treatment		
BUSSE M., VAUPEL P. W.	405	
Tumor reoxygenation as a mechanism of taxol-induced enhancement of tumor radioresponse		
MILAS L., HUNTER N., MASON K. A., MILROSS C., PETERS L. J.	409	
Interaction between ionizing radiation, estrogens and antiestrogens in the modification of tumor microenvironment in estrogen dependent multicellular spheroids		
VILLALABOS M., ARANDA M., NUÑEZ M. I., BECERRA D., OLEA N., RUIZ DE ALMODOVAR M., PEDRAZA V.	413	
Effect of intraperitoneal ATP on tumor growth and bone marrow radiation tolerance		
FROIO J., ABRAHAM E. H., SONI R., EPSTEIN A., OKUNIEFF P.	419	
Cytotoxic effect of tumour necrosis factor-alpha on sarcoma F cells at tumour relevant oxygen tensions		
LYNCH E. M., SAMPSON L. E., KHALIL A. A., HORSMAN M. R., CHAPLIN D. J.	423	
Modification of tumour glucose metabolism for therapeutic benefit		
HAMILTON E., FENNELL M., STAFFORD D. M.	429	
Basic fibroblast growth factor radioprotects bone marrow and not RIF1 tumor		
OKUNIEFF P., ABRAHAM E. H., MOINI M., SNYDER M. L., GLOE T. R., CAPOGROSSI M. C., DING I.	435	
Prostaglandins and gangliosides of tumor microenvironment—Their role in angiogenesis		
GULLINO P. M.	439	
The ability of nicotinamide to inhibit the growth of a C3H mouse mammary carcinoma		
HORSMAN M. R., KHALIL A. A., CHAPLIN D. J., OVERGAARD J.	443	
Modification of tumor microenvironment by cytokine gene transfer		
MCBRIDE W. H., ECONOMOU J. S., KUBER N., HONG J.-H., CHIANG C.-S., SYLUJASEN R., DOUGHERTY S. T., DOUGHERTY G. J.	447	

No. 4

Hemopoietic growth and inhibitory factors in treatment of malignancies—A review HANSEN F.....	453	Accidental doxorubicin overdosage BÄCK H., GUSTAVSSON A., EKSBORG S., RÖDGER S.....	533
Skin cancer of the head and neck in Zaria, Nigeria YAKUBU A., MABOGUNJE O.....	469	Molecular complete response in a patient with chronic lymphocytic leukaemia treated with 2-chlorodeoxyadenosine CULL G., RICHARDSON D. S., HOWE D. J., HOPKINS J. A., JOHNSON S. A., PHILLIPS M. J.....	536
Myelodysplastic syndromes—A population-based study on transformation and survival HÖRNSTEN P., WAHLIN A., RUDOLPHI O., NORDENSON I.....	473	<i>Short Communications</i>	
Cell proliferation in dimethylbenz(a)anthracene (DMBA)-induced rat mammary carcinoma treated with antiestrogen toremifene HUOVINEN R. L., ALANEN K. A., COLLAN Y. U.	479	A subdural hematoma from metastatic esophageal cancer CROSS P. A., ORTEGA L. G., THEDORE, N., WADLEIGH R. G.....	538
Radioprotective effects of local administration of lysine-vasopressin and triglycyl-lysine-vasopressin on the rectal mucosa in rats BJELKENGREN G., ARONSEN K. F., AUGUSTSSON N. E., BORGSTRÖM S., LINDSTRÖM C., NYLANDER G.....	478	Chromosome aberrations in circulating lymphocytes after brachytherapy for uterus carcinoma LÉONARD A., BAUGNET-MAHIEU L., HOANG HUNG T., LÉONARD E. D., LEMAIRE M., GERBER G. B.....	540
Contribution of lethal mutations to excision assays for tumour cell survival CHATTERJEE A., HODGKISS R. J., ROJAS A. M.	493	<i>Letters to the Editor</i>	
Detection of c-erbB-2 related protein in sera from breast cancer patients—Relationship to ERBB2 gene amplification and c-erbB-2 protein overexpression in tumour ANDERSEN T. I., PAUS E., NESLAND J. M., MCKENZIE S. J., BØRRESEN A.-L.....	499	Backscatter radiation damage at tissue-titanium interface in biological dosimetry experiment DAS I. J.	
The impact of ¹²³ I-meta-iodobenzylguanidine scintigraphy on diagnostics and follow-up of neuroblastoma ABRAHAMSEN J., LYCK B., HELGESTAD J., BÜCHLER FREDERIKSEN P.....	505	Response Carlsson J., Rosengren B.....	543
Immunohistochemical expression of placental alkaline phosphatase and vimentin in epithelial ovarian neoplasms NAKOPOLOU L., STEFANAKI K., JANINIS J., MASTROMINAS M.....	511	Sinking floor for choice of isocenter height on linear accelerators NÄSLUND I., LAX I., HÖGBERG L., AUGUSTSSON N.-E.....	544
Monitoring of blood- ¹⁰ B concentration for boron neutron capture therapy using prompt gamma-ray analysis RAAIJMAKERS C. P. J., KONIJNENBERG M. W., DEWIT L., HARITZ D., HUISKAMP R., PHILIPP K., SIEFERT A., STECHER-RASMUSSEN F., MIJNHEER B. J.....	517	Abstracts of Theses from the Scandinavian Countries Meeting Calendar.....	555
Radiotherapy alone for non-small cell lung carcinoma—Five-year disease-free survival and patterns of failure KOUKOURAKIS M., SKARLATOS J., KOSMA L., GIATROMANOLAKI A., YANNAKAKIS D.....	525	Book Reviews	563
<i>Case Reports</i>			
Spontaneous bacterial peritonitis in a child with abdominal lymphoma GHOSHAL U. C., PODDAR U., YACHHA S. K....	531	No. 5	
Kaposi's sarcoma of the lung—Remission followed by fatal pneumonitis after vinblastine and thoracic irradiation FIGUEREDO A. T., JONES G., KAY M. J., HIGGINS D., YOUNG J. E. M.....	532	Radiotherapy in addition to radical surgery in rectal cancer GLIMELIUS B., ISACSSON U., JUNG B., PAHLMAN L.....	565
		Nicotinamide and other benzamide analogs as agents for overcoming hypoxic cell radiation resistance in tumours—A review HORSMAN M. R.....	571
		Bladder preservation—A prospect for patients with urinary bladder cancer STERNBERG C. N.....	589
		Serum levels of cytokines and soluble cytokine receptors in patients with metastatic renal cell carcinoma or malignant melanoma receiving IL-2/interferon- α combination therapy FOSSÄ S. D., AAMDAL S., NAUME B., GALLATI H.....	599
		High cell proliferation activity determined by DNA flow cytometry and prognosis in epidermoid lung carcinoma VISAKORPI T., HOLLI K., HAKAMA M.....	605
		<i>Short Communication</i>	
		Severe complications after high-dose methotrexate treatment TAKAMI M., KUNIYOSHI Y., OOMUKAI T., ISHIDA T., YAMANO Y.....	611

Papers from the 5th Scandinavian Breast Cancer Symposium

Chronobiology—Implications for cancer chemotherapy	
BJARNASON G. A.	615
Role of surgery in invasive breast cancer	
HOLMBERG L.	625
Clodronate and other bisphosphonates as supportive therapy in osteolysis due to malignancy	
ELOMÄÄ I., BLOMQVIST C.	629
Development of antiemetic therapy in cancer patients	
HERRSTEDT J.	637
Differential expression of oestrogen regulated genes in breast cancer	
MANNING D. L., McCLELLAND R. A., KNOWLDEN J. M., BRYANT S., GEE J. M. W., GREEN C. D., ROBERTSON J. F., BLAMEY R. W., SUTHERLAND R. L., ORMANDY C. J., NICHOLSON R. I.	641
Interactions between the immune system and breast cancer	
ÖGMUNDSDÓTTIR H. M., PÉTURSDÓTTIR I., GUÐMUNDSDÓTTIR I.	647
Expression and regulation of cyclin genes in breast cancer	
SUTHERLAND R. L., HAMILTON J. A., SWEENEY K. J. E., WATTS C. K. W., MUSGROVE E. A.	651
Chromosome 17q-linkage seems to be infrequent in Icelandic families at risk of breast cancer	
BARKARDÓTTIR R. B., ARASON A., EGILSSON V., GUÐMUNDSSON J., JÓNASDÓTTIR A., JÓHANNESDÓTTIR G.	657
TP53 abnormalities and genetic instability in breast cancer	
EYFJÓRD J. E., THORLACIUS S., VALGARDSDÓTTIR R., GRETARSDÓTTIR S., STEINARSDÓTTIR M., ANAMTHAWAT-JÓNSSON K.	663
High-dose therapy with autologous bone marrow stem cell support in primary and metastatic human breast cancer—A review	
BERGH J.	669
The role of radiotherapy in breast conserving treatment	
LANDBERG T.	675
Breast-conserving surgery without radiotherapy	
HOLMBERG L.	681
Breast reconstruction	
VAN SMITTEN K.	685
Assessment of quality of life in breast cancer	
FALLOWFIELD L. J.	689
Abstracts of Theses from the Scandinavian Countries Meeting Calendar	
Meeting Calendar	699
Book Reviews	707
A cohort study with regard to the risk of haematological malignancies in patients treated with x-rays for benign lesions in the locomotor system—I. Epidemiological analyses	
DAMBER L., LARSSON L.-G., JOHANSSON L., NORIN T.	713
A cohort study with regard to the risk of haematological malignancies in patients treated with x-rays for benign lesions in the locomotor system—II. Estimation of absorbed dose in the red bone marrow	
JOHANSSON L., LARSSON L.-G., DAMBER L.	721
Risk of solid tumors after irradiation in infancy	
LUNDELL M., HOLM L.-E.	727
Cancer incidence after radiotherapy for skin haemangioma during infancy	
LINDBERG S., KARLSSON P., ARVIDSSON B., HOLMBERG E., LUNDBERG L. M., WALLGREN A.	735
Acetaminophen, some other drugs, some diseases and the risk of transitional cell carcinoma—A population-based case-control study	
STEINECK G., WIHOLM B. E., GERHARDSSON DE VERDIER M.	741
Parenchymal-stromal interactions in neoplasia—Theoretical considerations and observations in melanocytic neoplasia	
CLARK W. H. JR., TUCKER M. A., GOLDSTEIN A. M.	749
Glutathione transferase PI-1 expression in human melanoma metastases—Correlation to N-RAS mutations and expression	
PLATZ A., JUNGNELIUS U., GRAFSTRÖM E., LAGERLÖF B., MANNERVIK B., RINGBORG U.	759
P53 expression and the result of adjuvant therapy of breast cancer	
STÅL O., STENMARK ASKMALM M., WINGREN S., RUTQVIST L. E., SKOOG L., FERRAUD L., SULLIVAN S., CARSTENSEN J., NORDENSKJÖLD B.	767
Increased risk of second primary malignancies in patients with gynecological cancer—A Swedish record-linkage study	
BERGFELDT K., EINHORN S., ROSENDALH I., HALL P.	771
Value of uterine artery Doppler in endometrial cancer	
FLAM F., ALMSTRÖM H., HELLSTRÖM A.-C., MOBERGER B.	779
The role of cul-de-sac aspiration cytology in the follow-up of ovarian cancer	
ENGBLOM P. R., GRÉNMAN S. E., KLEMI P. J., HIRVONEN T. E., RANTANEN V. T., SALMI T. A.	783
Prognostic value of pretreatment factors in patients with locally advanced carcinoma of the uterine cervix treated by radiotherapy alone	
PEDERSEN D., SØGAARD H., OVERGAARD J., BENTZEN S. M.	787
The prognostic significance of stage, tumor size, cellular atypia and DNA ploidy in uterine leiomyosarcoma	

No. 6

*Special Issue in Honour of Nina and Jerzy Einhorn
in Celebration of their 70th Birthdays*

NORDAL R. R., KRISTENSEN G. B., KAERN J., STENWIG A. E., PETTERSEN E. O., TROPÉ C. G.	797	
The prognostic information of DNA ploidy and S-phase fraction may vary with histologic grade in endometrial carcinoma		
GUDMUNDSSON T. E., HÖGBERG T., ALM P., ANDERSON H., BALDETORP B., FERNÖ M., LÄNGSTRÖM E., KILLANDER D.....	803	
Experience with hormonal therapy in advanced epithelial ovarian cancer		
VAN DER VANGE N., GREGGI S., BURGER C. W., KENEMANS P., VERMORKEN J. B.....	813	
Carboplatin in combination with epirubicin and cyclophosphamide in patients with advanced ovarian cancer—A phase II study		
ANDERSSON H., FRIBERG L.-G., HORVATH G., JOHANSSON O., ÅKESSON M., WESTBERG R.....	821	
Quality assurance network in central Europe— External audit on output calibration for photon beams		
IŻEWSKA J., NOVOTNY J., GWIAZDOWSKA B., KINDLOVA A., KONTRA G., VAN DAM J., DUTREIX A., VAN DER SCHUEREN E.....	829	
The importance of local control in the conservative treatment of breast cancer		
LEVITT S. H., AEPPLI D. M., NIERENGARTEN M. E.....	839	
Influence of radiation therapy on lung tissue in breast cancer patients—CT-assessed density changes 4 years after completion of radiotherapy		
SVANE G., ROTSTEIN S., LAX I.....	845	
Volume and heterogeneity dependence of the dose-response relationship for head and neck tumours		
ÅGREN CRONQVIST A.-K., KÄLLMAN P., TURESSON I., BRAHME A.....	851	
Stereotactic high dose fraction radiation therapy of extracranial tumors using an accelerator— Clinical experience of the first thirty-one patients		
BLOMGREN H., LAX I., NÄSLUND I., SVANSTRÖM R.....	861	
Interaction of the antiemetics ondansetron and granisetron with the cytotoxicity induced by irradiation, epirubicin, bleomycin, estramustine, and cisplatin in vitro		
BEHNAM MOTLAGH P., HENRIKSSON R., GRANKVIST K.....	871	
Long-term adjuvant interferon treatment of human osteosarcoma—A pilot study		
STRANDER H., BAUER H. C., BROSJÖ O., FERNBERG J. O., KREICBERGS A., NILSSON U., SILFVERSWARD C., SIGNOMKLAO T., SÖDER- LUND V.....	877	
Use of non-proven therapies—Differences in attitudes between Norwegian patients with non-malignant disease and patients suffering from cancer		
RISBERG T., LUND E., WIST E.....	893	
Surgery for cure followed by chemotherapy in small cell carcinoma of the lung		
KARRER K., ULSPERGER E.....	899	
Stress influence on development of hepatocellular tumors in transgenic mice overexpressing TGF α		
HILAKIVI-CLARKE L., DICKSON R.....	907	
Modification of radiation-induced chromosome damage and micronucleus induction in mouse bone marrow by misonidazole and hyperthermia		
SINGH BISHT K., UMA DEVI P.....	913	
Effect of granulocyte-macrophage colony-stimulating factor (GM-CSF) on hematologic toxicity induced by high-dose chemotherapy in patients with metastatic breast cancer		
HANSEN F., STENBYGAARD L., SKOVSGAARD T.....	919	
Serum lactate dehydrogenase isoenzyme I—An early indicator of relapse in patients with testicular germ cell tumors		
EYBEN VON F. E., LINDEGAARD MADSEN E., BLAABJERG O., HYLTØFT PETERSEN P.....	925	
Immunoelectrophoretic differentiation of alpha-fetoprotein in disorders with elevated serum alpha-fetoprotein levels or during pregnancy		
CHEN R.-J., CHEN C.-K., CHANG D.-Y., CHOW S.-N., HUANG S.-C., HSIEH C.-Y., LIN M.-C., HSU H.-C.....	931	
Mesna/ifosfamide, mitoxantrone, etoposide, bleomycin, vincristine, prednisone (MINE-BOP) combination chemotherapy in the treatment of refractory and relapsed non-Hodgkin's lymphoma		
DİNÇOL D., İÇLİ F., KARAOĞUZ H., ÇAY F., ARİCAN A., DEMIRKAZIK A., AKBULUT H.....	937	
Chemotherapy and radiotherapy in locally advanced cervical cancer		
BRUNET J., ALONSO C., LLANOS M., LACASTA A., Fuentes J., Mendoza L. A., Badia J. M., DELGADO E., OJEDA B.....	941	
Transrectal ultrasonically-guided core biopsies in the assessment of local cure of prostatic cancer after radical external beam radiotherapy		
LJUNG G., NORBERG M., HANSSON H., DE LA TORRE M., EGEVAD L., HOLMBERG L., BUSCH C., NILSSON S.....	945	
External beam radiotherapy of localized prostatic adenocarcinoma—Evaluation of conformal therapy, field number and target margins		
LENNERNÄS B., RIKNER G., LETOCHA H., NILSSON S.....	953	
Field displacement during external radiotherapy in prostatic adenocarcinoma treated with radioactive ^{198}Au implants and external irradiation		
LENNERNÄS B., LETOCHA H., RIKNER G., MAG- NUSSON A., NILSSON S.....	959	
The impact of lymph node metastases on the results of treatment by primary radiotherapy and secondary surgery in oropharyngeal cancer		
LINDELØV B., HANSEN H. S.....	965	

No. 7

Cancer survival in Sweden during three decades,
1961–1991
STENBECK M., ROSEN M., HOLM L.-E.....

881

Case Reports

Breast angiosarcoma after radiation therapy

PROVENCIO M., BONILLA F., ESPAÑA P. 969

Acute renal insufficiency due to viral infection caused by cytomegalovirus (CMV) during treatment with methotrexate

MAICHE A. G. 969

Aggressive hepatic leiomyosarcoma—An immunohistochemical evaluation of malignant potential using monoclonal antibody MIB-1

HIGUCHI T., KIKUCHI M., YAMADA Y. 970

5-fluorouracil/levamisole induced intrahepatic fat infiltration imitating liver metastasis

NORUM J. 971

Primary fibrosarcoma of the right ventricle—A case report

JYOTHIRMAYI R., JACOB R., NAIR K., RAJAN B. 972

Short Communications

Combined interferon and vinblastine treatment in advanced renal cell cancer

KELLOKUMPU-LEHTINEN P., JANTUNEN I., FLANDER M., JOHANSSON R., NORDMAN E.... 975

Tumor cell DNA content and radiation response in head and neck squamous cell carcinoma

NISHIOKA T., SHIRATO H., ICHIMURA W., SOHMA S., ISHII K., NAKAGAWA M., YAMAGUCHI J., SUZUKI, K., SHIMIZU T. 979

Systemic mitomycin C as second-line treatment for metastatic urothelial cancer

SENGELØV L., NIELSEN O. S., KAMBY C., VON DER MAASE H. 980

Abstracts of Theses from the Scandinavian Countries Meeting Calendar 983

Book Reviews 991

Development of clinical radiotherapy since 1986

HOLSTI L.R. 995

The development of radiotherapy in Denmark during 100 years—From radiology to oncology

SELL A. 1005

Organization of radiotherapy and clinical oncology in Sweden—A historical review

LARSSON L.-G. 1011

The development of gynecological radiotherapy/oncology in Sweden

KJELLGREN O. 1017

Progress in radiotherapy

LANDBERG T. G. 1023

A 100-year Nordic perspective on the dose-time problem in radiobiology

BENTZEN S. M., THAMES H. D. 1031

Therapeutic radiation physics—A review of developments in Sweden

WALSTAM R. 1041

Truth or consequence—Bo Lindell's contribution to radiation protection

VALENTIN J. 1051

The race for megavoltage—x-rays versus telegamma

ROBISON R. F. 1055

A century with hyperthermic oncology in Scandinavia

DAHL O., OVERGAARD J. 1075

Cancer therapy with radiolabeled antibodies—An overview

BRULAND Ø. S. 1085

A glance at the history of nuclear medicine

CARLSSON S. 1095

The use of porphyrins and non-ionizing radiation for treatment of cancer

EVENSEN J. F. 1103

No. 8

Special Issue in Celebration of the Röntgen Centenary

The impact of Röntgen's and Becquerel's discoveries

EINHORN J. 993